ONE & TWO-FAMILY BASEMENT FINISH GUIDE

The information in this packet is provided to help guide you through the permit application process for finishing off your basement. This packet will also provide you with information regarding minimum construction requirements and electrical requirements.

Page 2-3: Permit Application Guide
Page 5: Basement Finish Layout Sheet
Page 7: Building Code Requirements
Page 8: Egress Window Requirements
Page 9: Electrical Requirements
Page 11-24: Permit Applications



PERMIT APPLICATION GUIDE

Basement Permit Guide:

This guide was developed to help direct you through the permit application process. Following the steps below will help to expedite the issuance of your building permit.

I. Completely fill out the attached Building Permit Application:

 Provide a detailed description of all proposed work. Property owners may obtain permits for construction projects if the house is owner-occupied. All contractors shall include their Dwelling Contractor Certification and Dwelling Contractor Qualifier Certification numbers from the State of Wisconsin Safety and Buildings Division.

2. Provide Set of Building Plans and Layout of Basement:

- The Plans must be of professional quality and legible.
 - o Acceptable plans can be submitted from building supply stores.
 - Fill out Basement Finish Sheet.
 - o Fill out layout of basement with dimensions and room identification.
- Include the following information:
 - The height of the ceiling.
 - Door and window locations with dimensions.
 - Material and size of headers.
 - Egress window detail (size, height from floor, window well).
 - o Dimensions of rooms labeled in feet/inches.
 - o Label the room use (bedroom, kitchen, living room, etc.).
 - Structural features such as size, species and grade of lumber and other structural materials used for walls, beams, headers, studs and columns.
 - o Include plumbing fixture locations (bathroom/kitchen/bar) if applicable.
 - o Include electrical fixture locations (see Basics for Remodel Wiring Sheet).
 - o Fill out **Electrical, Plumbing and HVAC Permits** if applicable and submit. There are two different types. If you, as the owner, are doing the project, then fill out the "Homeowners" permit. If you are hiring a contractor, have them fill out their "Contractors" permits and submit those for review.

3. Permit Fees:

- Submit the applicable permit fees. Basement permits are based on the square footage of the finished area (.095 per square foot) and a \$25 Building Plan fee (under 1,000 square feet) and \$50 Building Plan fee (over 1,000 square feet).
 - o Make checks payable to City of Green Bay, or
 - Pay online through GovPayNet
 http://www.greenbaywi.gov/DocumentCenter/View/943/Online-Payment-lnstructions-PDF- A project number must be assigned by Inspection office staff before making a payment online. A service fee will be charged for online payment.

4. Apply for the Permit:

Please plan ahead and pick one of the following methods to apply for your permit.
 Make sure all of the required information listed above is included and submit it to the
 Department of Community and Economic Development using one of the methods
 listed below:

o In Person with an Inspector at City Hall:

- This is the best method to discuss the specifics of your project with an inspector. Typically if all the required information is submitted and found acceptable, the permit can be issued at that time.
- Inspectors are available for consultation and permit issuance 8:00 a.m. 4:00 p.m., Monday through Friday.

By Email:

• Email all the required information (Site Plan and Permit Application) to SitePlanGB@greenbaywi.gov.

By Mail:

City of Green Bay
 Department of Community and Economic Development
 100 N Jefferson Street, Room 608
 Green Bay, WI 54301

Submittal Checklist:

- ✓ Building Plans/Layout of basement AND
 - a. Fill out Basement Finish Sheet
- ✓ Building Permit Application
 - a. Electrical Permit (if applicable = Homeowners vs Contractors)
 - b. HVAC Permit (if applicable = Homeowners vs Contractors)
 - c. Plumbing Permit (if applicable = Homeowners vs Contractors)



BASEMENT FINISH LAYOUT SHEET



Basement finish

•	Total square footage of project
	Ceiling height
	o MUST BE 7 FEET (84 INCHES)
•	Ceiling finishing (sheet rock info/ceiling tiles)
•	Stud type info/on center spacing
	Bottom plate (treated/size)
•	Insulation in wall
	Sheet rock on wall
	Door and header sizes
	Carbon monoxide and smoke detector information
•	Any bedrooms? If so, egress information
	• Every bedroom shall be wired to meet the requirements of the National Electric Code
	and is required to have a heat source.
•	Any Plumbing/Electrical/HVAC?
	o If answered yes, please have trade permits filled out for submittal.

- *Basements must have a hard wired CO/SD
 - Within 21 feet of bedroom
- *Basement bedrooms must have hard wired SD
- *Bathroom must be vented
- *Provide Building Plans/layout of basement

*Helpful information can be found on the DSPS website, Chapter 321 (SPS 321.03 Exits; SPS 321.035 Interior circulations; SPS 321.04 Stairway and Elevated areas; SPS 321.05 Natural Light and Ventilation; SPS 321.06 Ceiling Height; SPS 321.09 and 321.095 Smoke and CO protection.

BASEMENT BUILDING CODE REQUIREMENTS

CEILING HEIGHT

- MUST BE 7 FEET FOR HABITABLE ROOMS (Bathrooms, bedrooms, living room, kitchen, hallways, etc.) SPS 321.06
- Bedroom in basement:
 - Shall be provided with two forms of egress. SPS 321.03 (5)(b).
 - o Shall have hard wired smoke detector inside bedroom.
- Shall have hard wired smoke detector within 21' of bedroom. SPS 321.09
 - Shall have 8% natural light in bedroom. SPS 321.05
- Smoke Detector / Carbon Monoxide Detector in common area Must be hard wired and within 21 feet of bedroom. SPS 321.09
- Basement must comply with current National Electrical Code.
- Basement bathrooms must be vented to exterior of house.
- Helpful information can be found on the DSPS website Chapter 321(SPS 321.03 Exits; SPS 321.035 Interior circulations; SPS 321.04 Stairway and Elevated areas; SPS 321.05 Natural Light and Ventilation; SPS 321.06 Ceiling Height; SPS 321.09 and 321.095 Smoke and CO protection.

SPS 321.05 Natural light and natural ventilation.

- I. Natural light. All habitable rooms shall be provided with natural light by means of glazed openings. The area of the glazed openings shall be at least 8% of the net floor area, except under the following circumstances.
 - (a) Exception. Habitable rooms, other than bedrooms, located in basements or ground floors do not require natural light.
 - (b) Exception. Natural light may be obtained from adjoining areas through glazed openings, louvers or other approved methods. Door openings into adjoining areas may not be used to satisfy this requirement.

2. Ventilation.

(a) Natural ventilation. Natural ventilation shall be provided to all habitable rooms by means of openable doors, skylights or windows. The net area of the openable doors, skylights or windows shall be at least 3.5% of the net floor area of the room. Balanced mechanical ventilation may be provided in lieu of openable exterior doors, skylights or windows provided the system is capable of providing at least one air change per hour of fresh outside air while the room is occupied. Infiltration may not be considered as make-up air for balancing purposes.

BEDROOM BASEMENT WINDOW REQUIREMENTS FOR AN EGRESS WINDOW

- 1. The window must be within the basement bedroom.
- 2. Not required in most cases if 2 basement stairways are present.
- 3. A 20 inch by 24 inch or 24 inch by 20 inch box must fit through the window opening without using tools.
- 4. Minimal natural light and natural ventilation is always required in a basement bedroom.

SPS 321.03 (6) Windows used for exiting.

- I. Windows which are installed for exit purposes shall comply with the requirements of this subsection.
 - (a) The window shall be openable from the inside without the use of tools or the removal of a sash. If equipped with a storm or screen, it shall be openable from the inside.
 - (b) I. The nominal size of the net clear window opening shall be at least 20 inches by 24 inches irrespective of height or width. Nominal dimensions shall be determined by rounding up fractions of inches if they are 1/2 inch or greater or rounding down fractions of inches if they are less than 1/2 inch.
 - 2. No portion of the window, including stops, stools, meeting rails and operator arms, shall infringe on the required opening.
 - (c) The area and dimension requirements of par. (b) may be infringed on by a storm window.
 - (d) I. For any window used for exiting, the lowest point of clear opening shall be no more than 60 inches above the floor.
 - 2. If the lowest point of clear opening is more than 46 inches above the floor, a permanent platform or fixture shall be installed such that a flat surface at least 20 inches wide and 9 inches deep is located no more than 46 inches directly below the clear opening.
 - 3. The topmost surface of the platform or fixture shall be no more than 24 inches above the
 - 4. The topmost surface of the platform or fixture shall support a live load of at last 200 pounds.
 - 5. A stair used for the sole purpose of reaching the top of the platform or fixture is exempt from the requirements of s. SPS321.04.
 - (e) I. An egress window with any point of clear opening below adjacent grade shall be provided with an areaway in accordance with this section.
 - 2. The width of the areaway shall be at least equal to the width of the window.
 - 3. The areaway shall be a minimum of 36 inches measured perpendicular from the outer surface of the below-grade wall.
 - 4. If the bottom of the areaway is more than 46 inches below adjacent grade or the top of the areaway enclosure, the areaway shall be provided with a ladder or at least one additional step to aid egress. Steps used to comply with this section are exempt from the requirements of s. SPS321.04.

BASICS FOR REMODEL WIRING

Lighting:

At least I wall-switch controlled lighting outlet is required in the following locations:

- Every habitable room, bathroom, kitchen, etc.
- Hallways and stairways (interior stairways require a switch at each floor level where the difference between floor levels is 6 steps or more).
- Attached garages and detached garages with electric power.
- Attic, under floor spaces, utility rooms, and basements shall have a least I lighting outlet containing a switch or controlled by a wall switch at the usual point of entry, if these spaces are used for storage or contain equipment requiring servicing.
- On the exterior side of exterior entrances and exits with grade access.

Receptacles:

- Receptacles in habitable rooms to be located within 6 feet of a door and every 12 feet thereafter (there shall be no point along a wall more than 6 feet from a receptacle) and any wall greater than 2 feet in width.
- All receptacles lower than 5 1/2 feet from the floor must be tamper resistant type (TR).
- A minimum of I receptacle for hallways longer than 10 feet.
- A receptacle is required on any wall space greater than 2 feet.
- At least 1 receptacle outlet shall serve an island or peninsula.
- Bathroom receptacles are required to be on a 20-amp branch circuit and GFCI protected with no other outlets.
- At least I bathroom receptacle is to be located within 36 inches of the outside edge of each basin.
- Laundry areas shall have a least I 120-volt receptacle outlet supplied by a 20-amp branch circuit.
- Kitchen countertop receptacles shall be placed so that at no point along the wall space there is no longer than 2 feet measured horizontally from an outlet (typical 4 feet spacing) and any counter space greater than 12 inches. These receptacles shall be on at least two 20-amp branch circuits and be GFCI protected.
- Outdoor receptacle outlets shall be installed at the front and back of the dwelling and not more than 6 1/2 feet above grade (GFCI protection required).
- GFCI protection is required in bathrooms, kitchens, basements, outside and within 6 feet of any sink. At least I GFCI protected receptacle is required in all unfinished portions of a basement.

General Installation Requirements:

- Romex (type NM cable) shall be supported within 8 inches of a plastic box and 12 inches of a metal box and every 4 1/2 feet thereafter (holes in studs are considered support).
- All new lighting outlet and receptacle circuits must be arc fault (AFCI) protected in finished areas.
- Metallic boxes are to be grounded.
- A rough-in inspection must be scheduled before insulation or drywall is installed.



PROJECT PERMITS APPLICATION

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax

All fields must be completed before permit will be processed.

Project Address		Parcel #			4 (assigned by City)
Property Owner	Contra	ctor			
Name	Name				
Company	Company				
(if applies) Address	Address				
City, State, Zip	City, State,	Zip			
Phone #	Phone #	·			
Email	Email				
Current Land Use, Flood Plain & Zoning (c Land Use: Vacant Lot I-Family 2-Family Zoning: R-I R-2 R-3 RR OR NC D	Multi-Fan	h applies) nily # of units C-2 C-3 LI		nercial (describe) ₋ BP PI CO	
Flood Plain: Yes Base Flood Elevation (BFE) Project Scope: New Addition Altera (check all that apply) Height Area: Finished	tion R	epair Move	,	nolish)	Change-of-use
Description of Project √ :	Esti	imated Cost	of Constru	ıction \$	
	•				
Plan Approvals P PLBG Plan #		HVAC Plan #	# □	City SBD \$ City SBD \$ City SBD \$	5
Contractors (UDC Numbers Required): Do	CC #		DCQ#		
□ BLDG -					Bldg Fee \$
□ ELEC -					Elec Fee \$
□ HVAC –					Hvac Fee \$
□ PLBG –# of Fixtures					Plbg Fee \$
□ SWRS - □ Water Fee \$_		Storm Fee \$ssessment \$	_ 🗆 Sanitary Assessn		Swrs Fee \$
☐ CERTIFICATE OF OCCUPANCY		<u> </u>			C.O. \$
☐ EROSION CONTROL					Erosion Ctrl \$
☐ ADDITIONAL PERMITS (Sprinklers #, Curb Cut, Floo (Please List)	od Plain, Tem	np. Occupancy, Etc.)			Addl. Fee \$
DOUBLE FEE PERMIT [s.15.07(b)] If application for a building the job, applicable permit fee shall be doubled.	g permit has i	not been obtained p	rior to commen	cement of	Double Fee \$
Application Signature The applicant certifies that in Wisconsin Administrative Code, Municipal Ordinance, and worreates no legal liability, expressed or implied, on the Departure of Applicant	with the cor	nditions of this pe		rstands that per	
For Office Use Only			Date		
		Class Code	Census	Receipt No.	Total Fee
Reviewed By Crede	ential #				

To schedule an inspection, call (920) 448-3300 between 8:00 a.m. and 4:00 p.m. at least one business day prior to inspection date needed. Final inspections are required for all projects.



LICENSED CONTRACTOR ELECTRICAL PERMIT

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax inspmail@greenbaywi.gov

All fields must be co	ompleted before pern	nit will be processed.		
Project Address:			 	This section for City use onl
Owner's Name:				Project #:
Owner's Email:		Phone #:		Permit Code:
Electrical Contracto	r:			Permit Fee:
Electrical Contracto	or's Email:			Parcel #:
		Cell #:		Receipt #: Date:
Value of work:			· · · · · · · · · · · · · · · · · · ·	
OCCUPANCY (cl	heck appropriate bo	ox):		
Single-Family	Commercial	Educational	Multi-Family	Number of Units
Two-Family	Manufacturing	Other	,	
NATURE OF WO	PRK (check all that	apply):		
☐ Alteration Remodeling	Repairs Sign	Addition Detached Garage	Hot tub/spa Other	
) 448-3300 between 8 al inspections are requ		p.m. at least one business day s.
		ereby certify that the aborical codes and utility ser		pletion will be in compliance with
"E	NERGIZING THE DI	ESCRIBED WIRING WIL	L IN NO WAY CREA	TE A HAZARD"
		cation #		
State of TTI Electrica	ii Contractor Certine	(REQUIRED)	_ und vvi i laster ee	(REQUIRED)
Signature (Master Ele	ectrician Responsible F	For Work)		Date
INSPECTOR STA	TEMENT: I hereby	certify the work complet	ed as of date signed co	omplies with applicable codes.
Inspector Signature				Date
Check box for C The information be required to make pa	low must be provid	ded for notification of	project number and	permit fee. This information is
Phone		Fax	Email	



HOMEOWNER'S APPLICATION FOR ELECTRICAL PERMIT

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax

inspmail@greenbaywi.gov

All fields must	be completed before permit will be pr	ocessed.	
Name:			This section for City use only Project #:
Address:			Permit Code: Permit Fee:
Phone #:			Parcel #: Receipt #:
Email:			Date:
Check one:	Addition to existing building	Swimming pool	
	Detached garage	Other	
switches, recep	etch of the work you intend to otacles, lights, etc.) e the electrical work you intend to do:		cation of all electrical outlets (i.e.
What type of v	wiring method(s) do you intend to use	(i.e. Romex, EMT, PVC, o	lirect buried cable)?
	nmn, state the size wire you intend to ent device you intend to use to protect		nding column on the right, state the
Wire Size & Ty	/ре	Over Current I	Device Size
County, and the State of Wiscon accordance with Ordinances.	I hereby certify that I am the owner at I occupy such premises solely as a resinsin. I further declare that if the permins h State and City regulations. Failure to d	idence, in accordance with it is granted, the electrical do so will subject me to pe	the Homestead Act of the laws of the work will be performed by myself in nalties described in the State and City
Owner's Signati (required)	ure:	Date:	

NOTE: Duplexes, condos, and other similar dwelling units, which are physically attached to other dwelling units, are not single-family dwellings. The City electrical code allows homeowners to do wiring in existing single-family dwellings only.

Before insulating or covering any walls containing any wiring, call the Community and Economic Development Department for a rough-in inspection. At that time, all grounding splices should be made up permanently. When the job is completed, call for a final inspection prior to occupancy.

To schedule an inspection, call (920) 448-3300 between 8:00 a.m. and 4:00 p.m. at least one business day prior to inspection date needed. Final inspections are required for all projects.



LICENSED CONTRACTOR PLUMBING PERMIT

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax inspmail@greenbaywi.gov

All fields must be completed before permit will be processed. Project Address: This section for City use only Owner's Name: __ Project #: Permit Code: Phone #: Owner's Email: Permit Fee: Plumbing / Utility Contractor: Assessment Fee: _____ Parcel #: Contractor's Email: Receipt #: Contractor's Phone #: Value of Work: Date: I hereby make application for a permit for the following described sewer/plumbing work at the above location. FIXTURES ROUGHED IN FOR AND/OR INSTALLED (please check and indicate the number of fixtures) General Plumbing Storm Sewer Connection New System Mini Storm Sewer Addition/Remodel Sewer Cap Alteration Sewer/Water Repair Water Service Connection Water Heater Sanitary Sewer Connection Palmer Valve Total Fixtures: Other/Description: To schedule an inspection, call (920) 448-3300 between 8:00 a.m. and 4:00 p.m. at least one business day prior to inspection date needed. Final inspections are required for all projects. Contractor's Signature: _____ Master Plumber Credential # ____ Check box for Online Payment The information below must be provided for notification of project number and permit fee. This information is required to make payment online.

Excerpt from City of Green Bay Plumbing Code:

Section 16.06 Permit must be procured before starting work: If any work regulated by the Plumbing Ordinance for which a permit is required is commenced without a permit first having been obtained thereof, double the permit fee herein prescribed shall be paid when a permit finally is obtained. Payment of any fee mentioned in this Section, however, shall in no way relieve any person of the penalties that may be imposed for violation of the Plumbing Ordinance.



HOMEOWNER'S APPLICATION FOR PLUMBING PERMIT

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax inspmail@greenbaywi.gov

(Rev 12/16)

All fields must be completed before permit will be processed.	
Name:	This section for City use only Project #:
Address:	Permit Code: Permit Fee:
Phone #:	Parcel #:
Email:	Receipt #: Date:
Description of work:	
Number of fixtures roughed in for and/or installed:	(\$7.00/fixture, \$50.00 minimum permit fee)
Application is hereby made to do the above-described plusuance of the permit is based on §145.06(4)(a) of the perform plumbing work in a one-family building owned and or by him or her as his or her home. AFFIDAVIT: I hereby certify that I am the owner or Green Bay, Brown County, and that I occupy sugaccordance with the Homestead Act of the laws of the Stapermit is granted the plumbing work will be performed	State Code allowing a property owner to ccupied (per SPS 382.10(2) of the State Code) If the above-described premises located in the premises solely as a residence, in the of Wisconsin. I further declare that if the
City regulations. Failure to do so will subject me to of Ordinances.	penalties described in the State and City
Owner's Signature	Date
To schedule an inspection, call (920) 448-3300 betwee business day prior to inspection date needed. Final instance of Green Bay hereby permits the above-descent the address stated above, subject to all laws and regulation Wisconsin.	pections are required for all projects. ribed plumbing work to be performed at
By:	
Plumbing Inspector	Date



LICENSED CONTRACTOR HEATING PERMIT

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax inspmail@greenbaywi.gov

All fields must be completed be	efore permit will b	e processed.		
Project Address:				on for City use only
·			Permit Code	<u> </u>
Owner's Name:			Permit Fee:	
Owner's Email:		Phone #:	Parcel #:	
Heating Contractor:			Receipt #:	
Contractor's Phone #:				
I hereby make application for a	permit for the foll	lowing described heat	ing work at the above loca	ition.
Check all that apply:				
FURNACE: Gas	Electric _	Oil	Forced Air	
AIR CONDITIONER: F	orced Air	Central Air		
BOILER: Steam	_ Hot Water	Res	_ Industrial Co	ommercial
SPACE HEATER: Type	Un	it Clas	s	
To schedule an inspection day prior to inspection dat	. ,		-	east one business
Contractor's Signature:			Credential #	
Check box for Online Paye	<u>ment</u>			
The information below must be required to make payment on-		tification of project nu	ımber and permit fee. Thi	s information is
Phone	Fax		Email	



HOMEOWNER'S APPLICATION FOR HEATING PERMIT

Department of Community and Economic Development 100 N. Jefferson Street, Rm 608 Green Bay, WI 54301-5026 (920) 448-3300 - phone (920) 448-3426 - fax inspmail@greenbaywi.gov

(Rev 12/16)

Name:	This section for City use only Project #:
Address:	Permit Code:
	Permit Fee: Parcel #:
Phone #:	Receipt #:
Email:	Date:
Description of work:	
	ve-described heating work at the premises named above. Issuance of the State Code allowing a property owner to perform heating him as his home.
Brown County, and that I occupy su	the owner of the above-named premises located in Green Bay, uch premises solely as a residence in accordance with the e of Wisconsin. I further declare that if the permit is granted
	by myself in accordance with State and City regulations. penalties described in the State and City Ordinances.
Failure to do so will subject me to p	by myself in accordance with State and City regulations.
Failure to do so will subject me to possible to do so will subject to do	by myself in accordance with State and City regulations. penalties described in the State and City Ordinances.
Failure to do so will subject me to provide the components of the	by myself in accordance with State and City regulations. penalties described in the State and City Ordinances. Date 1 448-3300 between 8:00 a.m. and 4:00 p.m. at least one
Failure to do so will subject me to provide the common of	by myself in accordance with State and City regulations. penalties described in the State and City Ordinances. Date 1 448-3300 between 8:00 a.m. and 4:00 p.m. at least one needed. Final inspections are required for all projects. It is the above-described heating work to be performed at the